
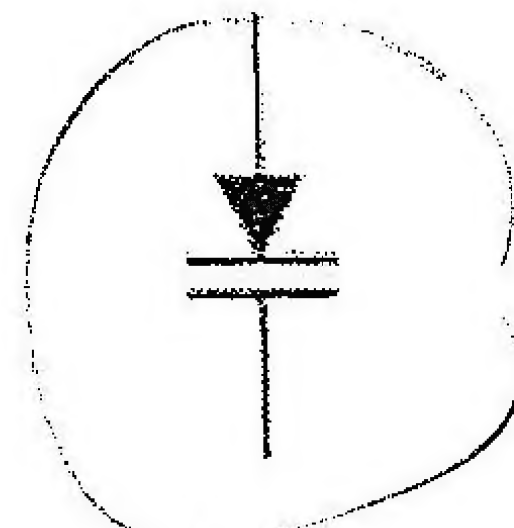


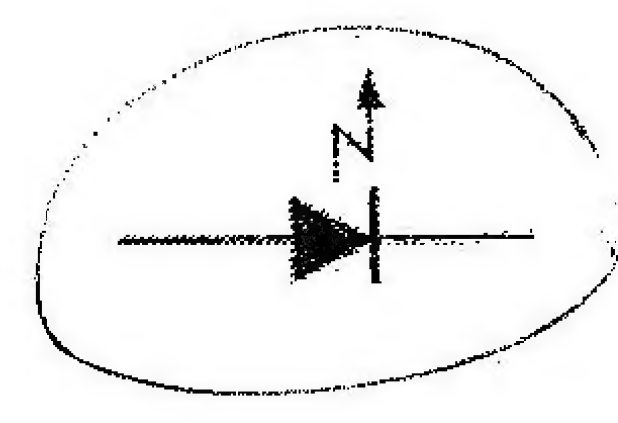
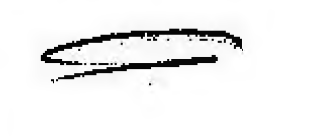

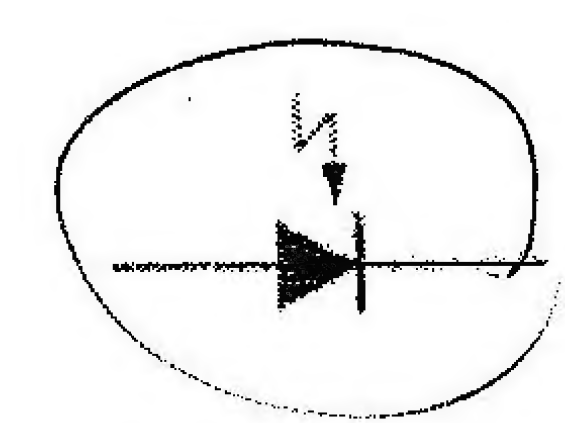
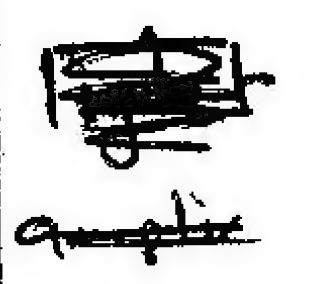
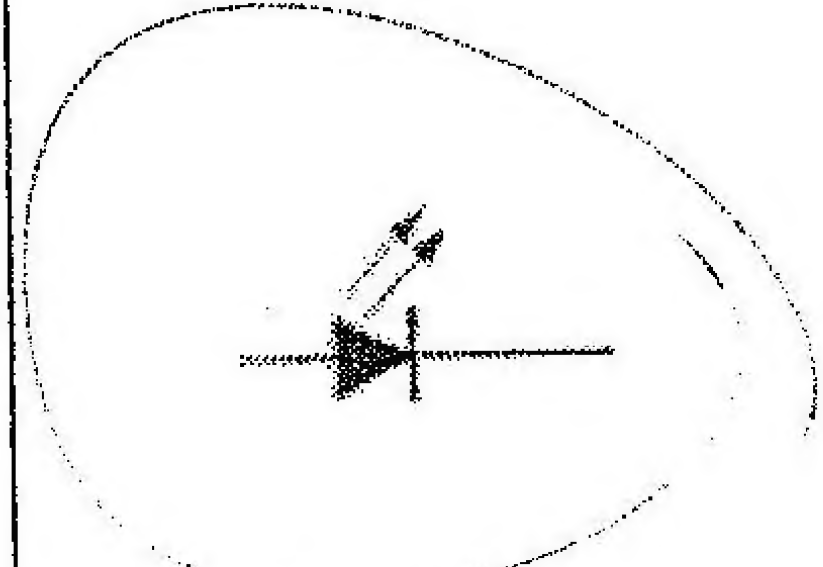


هياي سوال منها
في الامتحان

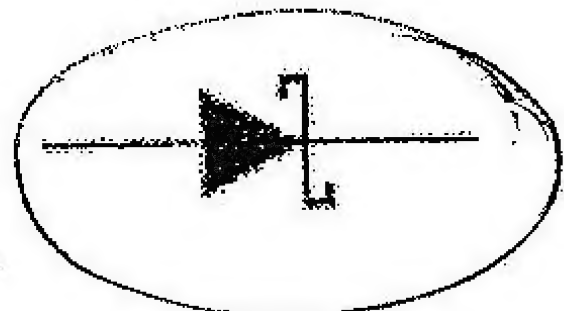

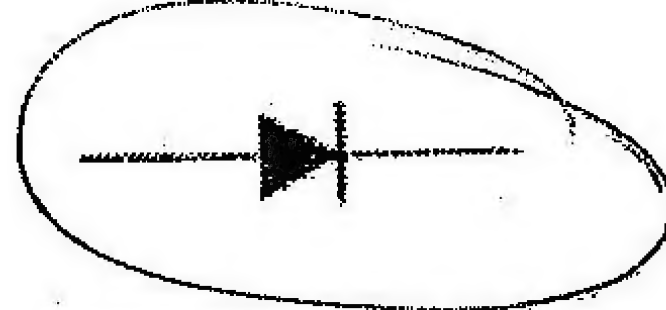

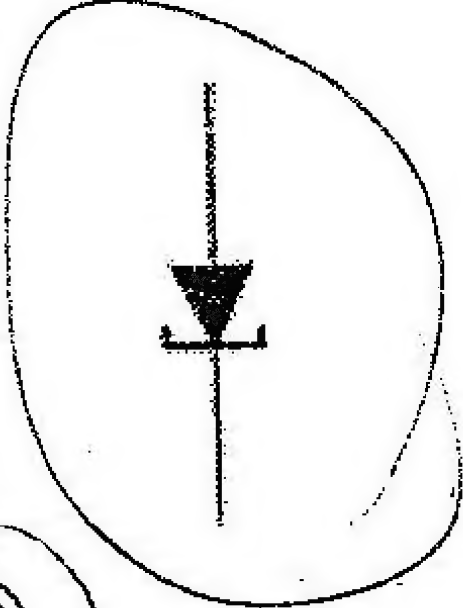

مع السلام قدره


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Special Purpose Diodes

Diode Name	Special characteristics	Applications	symbol
① Varactor 	Variable capacitor	- tuning circuits in VHF, UHF, Satellite Receivers utilize varactors - Cellular communications	 م
② LED Diode Light Emitting Diode (Seven Segment display) 	Light emitting diode 	- 7-segment display - industrial processing - control - position encoder - Bar graph reader - optical switching <u>used in optical fibers</u>	 م
Photo Diode 	Operate in reverse bias  not coherent لا شدة لينة ضراصة مثل جنواية الكهربا كل ما اسعدنا عنه كحيط بنزاد دارزة مكنود	- Used in pick up systems of compact disc (CD) players	 م
Laser Diode 	Light amplification by stimulation emission radiation - coherent, directional, monochromatic ↓ لونه واحد	- Used in pick up systems of compact disc (CD) players - laser printers - Medical applications - fiber optic systems	 م

تم ارفع بواسطة
م. معن ابو عيسى

Schottky Diode	Has metal semiconductor junction <u>Metal + N type</u>	- used in fast switching applications as LS(low power) Family of TTL	 
PIN Diode	- in <u>reversed bias</u> it acts as <u>constant capacitance</u> - in <u>forward bias</u> it acts as <u>A current controlled variable resistance</u>	-Dc controlled microwave switch - modulator -photo detector in fiber optic systems	 
Tunnel Diode	<u>Negative resistance</u>	Used in oscillator circuits and Microwave amplifier applications	 


 دائرة
 ثنائي
 نفوذ